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[P Sarkar](#)

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[Y Hoskote](#)

Y Hoskote, BA Bloechel, GE Dermer, V Erraguntla, D ... - IEEE JOURNAL OF SOLID-STATE CIRCUITS, 2003 - [ieeexplore.ieee.org](#)

[S Makineni](#)

... I. I INTRODUCTION T HIS PAPER presents an experimental Transmission Con- trol Protocol

[K Kant](#)

(TCP) offload engine that uses special-pur- pose hardware and is ...

[K Voruganti](#)

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TCP offload performance for front-end servers

K Kant - Global Telecommunications Conference, 2003. GLOBECOM'03. ..., 2003 - [ieeexplore.ieee.org](#)

... B. Modeling Assumptions Because of feature limitations and immaturity of current TCP offload engine (TOE) products, an experimental study wasn't appropriate ...

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Studying network protocol offload with emulation: approach and preliminary results - group of 2 »

R Westrelin, N Fugier, E Nordmark, K Kunze, E ... - High Performance Interconnects, 2004. Proceedings. 12th ..., 2004 - [ieeexplore.ieee.org](#)

... processing, the industry is proposing new techniques relying on an extended role of the network interface card such as TCP Offload Engine and Remote Direct ...

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Storage Over IP: When Does Hardware Support Help? - group of 5 »

P Sarkar, S Uttamchandani, K Voruganti - Proceedings of the 2nd USENIX Conference on File and Storage ..., 2003 - [portal.acm.org](#)

... of three competing approaches to build an IP storage area network that differ in their level of hardware support: software, TOE (TCP Offload Engine) and HBA ...

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Architectural Characterization of TCP/IP Packet Processing on the Pentium M Microprocessor - group of 6 »

S Makineni, R Iyer - Proceedings of the 10th International Symposium on High ..., 2004 - [doi.ieeecomputersociety.org](#)

... Motivated by this, several research projects contemplate the potential of using a TCP offload engine (TOE) or a packet processing engine (PPE) [1, 2, 5, 9, 13 ...

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Making the gigabit IPsec VPN architecture secure - group of 5 »

R Friend - Computer, 2004 - [ieeexplore.ieee.org](#)

... Although the system designer usually offloads TCP termina- tion to a TCP offload engine device that resides between the physical layer and the network pro ...

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The future of high-performance networking - group of 2 »

W Feng - Workshop on New Visions for Large-Scale Networks: Research ..., 2001 - public.lanl.gov

... Provide "zero-copy" TCP, **TCP offload engine**, or high-performance IP ... Provide "zero-copy" TCP, **TCP offload engine**, or high-performance IP ...

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Stream Engine: A new kernel interface for high-performance internet streaming servers - group of 3 »

J Lemon, Z Wang, Z Yang, P Cao - Web Content Caching and Distribution Workshop (IWCW), 2003 - 2003.iwcw.org

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Inter-Layer Coordination for Parallel TCP Streams on Long Fat Pipe Networks - group of 6 »

H Kamezawa, M Nakamura, J Tamatsukuri, N Aoshima, ... - Supercomputing, 2004. Proceedings of the ACM/IEEE SC2004 ..., 2004 - ieeexplore.ieee.org

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Structure and Performance of the Direct Access File System - group of 20 »

K Magoutis, S Addetia, A Fedorova, M Seltzer, J ... - Proceedings of USENIX 2002 Annual Technical Conference, ..., 2002 - ssrnet.snu.ac.kr

... This is possible in NICs implementing a **TCP offload engine**, but im- practical in conventional NICs such as the Tigon-II. 7 Experimental Results ...

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Engineering a user-level TCP for the CLAN network - group of 11 »

K Mansley - Proceedings of the ACM SIGCOMM workshop on Network-I/O ..., 2003 - portal.acm.org

... in faster retransmits. This is at the cost of com- plexity on the gateway as it tends towards a **TCP offload engine**. The former has ...

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U Nordqvist, D Liu - Proc. of CCSSE, 2002 - da.isy.liu.se

... architecture [6] includes MAC block for mixed medias (wired and fibre-based), a security accelerator, various classification block, a **TCP offload engine** and a ...

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... Page 5. A potential enhancement to an iSCSI implementation is the use of a **TCP offload engine (TOE)** card in place of a standard NIC. ...

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Method for interface of TCP offload engines to operating systems

P Ekis, CL McKnett, GR Ralph, A Andrews, C ... - 2004 - [freepatentsonline.com](#)
... present. 3. The method of claim 1, wherein said **TCP offload engine** network adapter is a full **TCP offload engine** network adapter. 4 ...

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System and method for fault tolerant TCP offload - group of 2 »

K FAN - EP Patent 1,396,977, 2004 - [freepatentsonline.com](#)
... The method may include one or more of the following steps: receiving TCP segment via a **TCP offload engine (TOE)**; calculating a TCP sequence number; writing a ...

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System and method for handling out-of-order frames (fka reception of out-of-order tcp data with zero ...

URI ELZUR - EP Patent 1,460,804, 2004 - [freepatentsonline.com](#)
... 2. The method according to claim 1, wherein the out-of-order frame is received via a **TCP offload engine (TOE)** of the network subsystem or a TCP-enabled ...

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System and method for network interfacing

U Elzur, F Fan, SB Lindsay, SS McDaniel - 2004 - [freepatentsonline.com](#)
... [0028] FIG. 11 shows a representation illustrating an embodiment of a **TCP offload engine** during receive according to the present invention. [0029] FIG. ...

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System Architecture of a Multimedia Streaming Server for the Next Generation Internet - group of 2 »

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... 3.2 TOE TOE is the **TCP Offload Engine** that plays the key role in offloading the TCP/IP protocol processing from the host CPU. TOE ...

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... network interface card (NIC), a network file system (NFS) accelerator product, a remote direct memory access (RDMA) bufferless NIC, and/or a **TCP offload engine** ...

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Enabling an enhanced function of an electronic device

LB Boucher, E Lee, R Blackborow, B Haaser, JL ... - 2004 - [freepatentsonline.com](#)
... is a network interface device such as, for example, an intelligent NIC (INIC) or what is sometimes called a "TCP offload device" or a "**TCP offload engine**" (TOE) ...

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Method, system, and article of manufacture for network protocols

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... protocol. For example, the NIC 106 may include a **TCP offload engine** adapter that implements a network stack in hardware or software. ...

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Self-describing transport protocol segments

U Elzur - 2004 - freepatentsonline.com
... 110. The network subsystem 100 may include, for example, a TCP-enabled Ethernet Controller (TEEC) or a **TCP offload engine** (TOE). ...

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OR Mitchell, RB Cohen, E Coy, R Datta, R Findley, ... - 2002 - freepatentsonline.com
... B12. The information-processing system of claim B8, wherein the application streams comprise a **TCP offload engine** communication. C1. ...

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J Sterbenz, D Stiliadis - High Performance Interconnects, 2004. Proceedings. 12th ..., 2004 - ieeexplore.ieee.org
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... NIC. The network subsystem 80 may include, for example, a TCP-enabled Ethernet Controller (TEEC) or a **TCP offload engine** (TOE). ...

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Method and system for data placement of out-of-order (OOO) TCP segments

U Elzur - 2004 - freepatentsonline.com
... 73. The system according to claim 49, wherein said at least one processor is one of a **TCP offload engine** (TOE), TCP-enabled Ethernet Controller (TEEC), a RISC ...

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BS Ahn, SH Sohn, CY Kim, GI Cha, YC Baek, SI Jung, ... - Proceedings of the 12th annual ACM international conference ..., 2004 - portal.acm.org
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SP Dubal, DD Boom, PL Connor, MV Montecalvo - 2004 - freepatentsonline.com
... For example, the adapter may include other packet filters and/or a **TCP Offload Engine** (TOE) that performs TCP protocol operations on packets after their ...

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Memory request handling method for small discontinuous accesses to high-density memory devices

L Zsohar - 2004 - freepatentsonline.com
... prevent eavesdropping, message forgery, and interference. [0138] "TOE" means **TCP Offload Engine**. TOE technology typically takes the ...
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... Though the iSCSI protocol is fully compatible with commodity networking infrastructures, specialized network adapters, such as **TCP Offload Engine** (TOE) and ...
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... In many environments, it may be desirable to offload TCP (and possibly also iSCSI) processing onto a **TCP Offload Engine** (TOE) or an iSCSI adapter, thus ...
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... Furthermore, it may be relatively difficult to implement such a system in tandem with a **TCP offload engine** (or a Layer 5 device) because IPsec is a Layer 3.5 ...
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... security hardware acceleration--AES, 3DES, RSA, SHA/MD5; packet ordering support; string processing support; TOE hardware (**TCP Offload Engine**); and 800 IO ...
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M BUER, URI ELZUR, K FAN, SS MCDANIEL, JJ TARDO - EP Patent 1,427,133, 2004 - freepatentsonline.com
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RG Illikkal, I Taylor - 2004 - freepatentsonline.com
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... those of their competi- tors, some vendors "add value" to their NICs by adding features such as "Wake on LAN" or special **TCP offload engine** (TOE) chips ...

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